Appl. No. 09/888,189
Amdt. dated September 29, 2005
Amendment with submission of Request for Continued
Examination [RCE] under 37 C.F.R. 1.114

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1   1. (Currently amended) A method of simulating a system, the method

2 comprising:

3   modeling the system to be simulated using computer code to produce a system

4 model comprising at least a first portion and a second portion;

5   in a simulator, performing simulation in a first simulation mode having a first

6 accuracy level for at least a first portion of code ~~that models at least a~~ comprising the first portion

7 of the system model; and

8   in the same simulator, performing simulation in a second simulation mode having

9 a second accuracy level different from the first accuracy level for at least a second portion of

10 code ~~that models at least a~~ comprising the second portion of the system model.

1   2. (Previously presented) The method of claim 1, wherein the first simulation

2 mode comprises a functional simulation mode in which behavior of the system represented by

3 the first portion of code is simulated without regard to execution time to thereby obtain

4 information about functionality of the first portion of the simulated system;

5   and the second simulation mode comprises a performance simulation mode in

6 which behavior of system represented by the second portion of code is simulated with regard to

7 execution time to thereby obtain information about the performance of the second portion of the

8 simulated system.

1   3. (Previously presented) The method of claim 1, wherein the different modes

2 are invoked within a single simulation program execution run.

         4. (canceled)

1   5. (Previously presented) The method of claim 2, further comprising adjusting

2 the second accuracy level of the second performance simulation mode.

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1   6. (Previously presented) The method of claim 5, wherein the second portion of

2   code includes two portions of code, and the method further comprises adjusting the second

3   accuracy level for the two portions of code independently of each other.

        7-9. (canceled)

1   10. (Previously presented) A simulation system for simulating the performance

2   of an external system, the simulation system comprising:

3   a module for performing simulation in a first simulation mode having a first

4   accuracy level for at least a first portion of code that models at least a portion of the external

5   system; and

6   a module for performing simulation in a second simulation mode having a second

7   accuracy level different from the first accuracy level for at least a second portion of code that

8   models at least a portion of the external system.

1   11. (Previously presented) The system of claim 10, wherein the first simulation

2   mode comprises a functional simulation mode in which behavior of the external system

3   represented by the first portion of code is simulated without regard to execution time to thereby

4   obtain information about functionality of the first portion of the simulated external system; and

5   the second simulation mode comprises a performance simulation mode in which behavior of the

6   external system represented by the second portion of code is simulated with regard to execution

7   time to thereby obtain information about the performance of the second portion of the simulated

8   external system.

1   12. (currently amended) The system of claim 10, wherein the different modes are

2   invoked within a single simulation program execution run.

        13. (canceled)

1   14. (Previously presented) The system of claim 11, further comprising a module

2   for facilitating adjustment of the second accuracy of the second performance simulation mode

1   15. (currently amended) The system of claim 11, wherein the second portion of

2   code includes two portions of code and the system further comprises a module for facilitating the

3   adjustment of the second accuracy of the performance simulation mode for the two portions of

4   code independently of each other.

        16. (canceled)

1   17. (Previously presented) The method of claim 1 wherein the step of modeling

2   the external system to be simulated using computer code includes modeling all of the external

3   system to be simulated;

4   the step of performing simulation in a first simulation mode includes performing a

5   functional simulation on all of the external system;

6   the step of performing simulation in a second simulation mode includes

7   performing a performance simulation at least a part of the external system; and

8   the first simulation mode and the second simulation mode are performed during a

9   single simulation program execution run.

1   18. (Previously presented) The system of claim 10 wherein all of the system to

2   be simulated is modeled using computer code;

3   the module for performing simulation in a first simulation mode performs a

4   functional simulation on all of the external system;

5   the module for performing simulation in a second simulation mode performs

6   simulation of at least a part of the external system; and

7   the modules for performing the first simulation mode and the second simulation

8   mode are invoked during a single simulation program execution run.